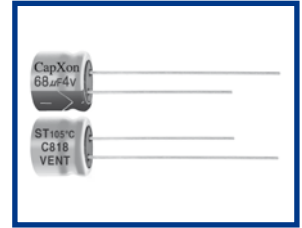


ST Series 5 mm 105°C

Features

- ◆ 5.0±1 mm max height
- ◆ Load life 105°C, 1000 hrs assured
- ◆ For detail specifications, please refer to Engineering Bulletin No. E112
- ◆ RoHS Compliant



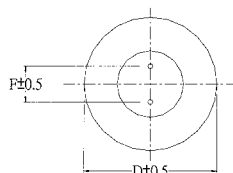
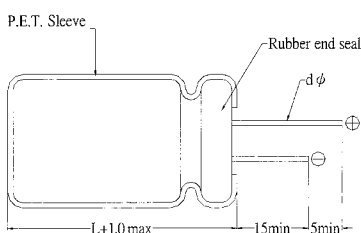
Specifications

Item	Performance Characteristics							
Operating Temperature Range	-40 to +105°C							
Rated Voltage Range	4 to 50 VDC							
Capacitance Range	0.1 to 100 µF							
Capacitance Tolerance	±20% (120Hz, +20°C)							
Leakage Current(+20°C, max)	1 ≤ 0.01 CV or 3 (µA) After 2 minutes, whichever is greater measured with rated working voltage applied.							
Dissipation Factor (tan δ, at 20°C, 120Hz)	Working Voltage (VDC)	4	6.3	10	16	25	35	50
	D.F. (%)max	35	24	20	16	14	12	10
Low Temperature Characteristics (at 120Hz)	Impedance ratio max							
	Working Voltage (VDC)	4	6.3	10	16	25	35	50
	Z-25°C / Z+20°C	6	3	3	2	2	2	2
Z-40°C / Z+20°C	12	8	5	4	3	3	3	
	Test conditions							
Load Life	Duration time	:1000 Hrs						
	Ambient temperature	:+105°C						
	Applied voltage	:Rated DC working voltage						
	After test requirement at +20°C							
	Capacitance change	:≤ ±20% of the initial measured value (4V : ≤ ±30%)						
	Dissipation factor	:≤ 200% of the initial specified value						
Leakage current	:≤ The initial specified value							
Shelf Life	Test conditions							
	Duration time	:1000 Hrs						
	Ambient temperature	:+105°C						
Applied voltage	:None							
After test requirement at +20°C : Same limits as Load life.								
Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes.								

Multiplier for Ripple Current vs. Frequency

CAP(µF)\Frequency(Hz)	50(60)	120	1K	≥10K
0.1~47	0.8	1	1.30	1.50
100~220	0.8	1	1.15	1.20

Diagram of Dimensions:(unit:mm)



D φ	3	4	5	6.3	8
F	1.0±0.3	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
d φ	0.4	0.45			

Case Size

WV Cap(μF)	4		6.3		10		16		25		35		50		
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	
0.1													3x5	1.0	
													4x5	1.5	
0.15													3x5	1.8	
													4x5	2.0	
0.22													3x5	2.3	
													4x5	2.6	
0.33													3x5	3.0	
													4x5	3.2	
0.47													3x5	3.5	
													4x5	3.8	
0.68													3x5	4.6	
													4x5	5	
1													3x5	5.6	
													4x5	6.2	
1.5													3x5	6.5	
													4x5	7	
2.2												3x5	7.5	3x5	8
												4x5	7.5	4x5	11
3.3										3x5	8.5	3x5	9	4x5	14
										4x5	8.5	4x5	11		
4.7								3x5	9	3x5	10	4x5	15	5x5	19
								4x5	9	4x5	13				
6.8					3x5	11	4x5	13	4x5	15	5x5	19	5x5	22	
					4x5	11							6.3x5	25	
10	3x5	10	3x5	12	4x5	15	4x5	18	5x5	23	5x5	25	6.3x5	30	
	4x5	10	4x5	12											
15	4x5	13	4x5	15	4x5	18	5x5	23	6.3x5	32	6.3x5	32	8x5	35	
22	4x5	22	4x5	22	5x5	27	5x5	30	6.3x5	39	6.3x5	48	8x5	50	
33	5x5	30	5x5	30	5x5	35	6.3x5	45	6.3x5	48	8x5	50			
47	5x5	36	5x5	36	6.3x5	48	6.3x5	50	6.3x5	50					
									8x5	55					
68	6.3x5	52	6.3x5	52	6.3x5	53	8x5	55							
100	6.3x5	60	6.3x5	60	8x5	65	8x5	68							
220	6.3x5	80	6.3x5	80	8x5	83									

Ripple Current (mA, rms) at 105°C 120Hz